

Q&A Support in 7-10 Years

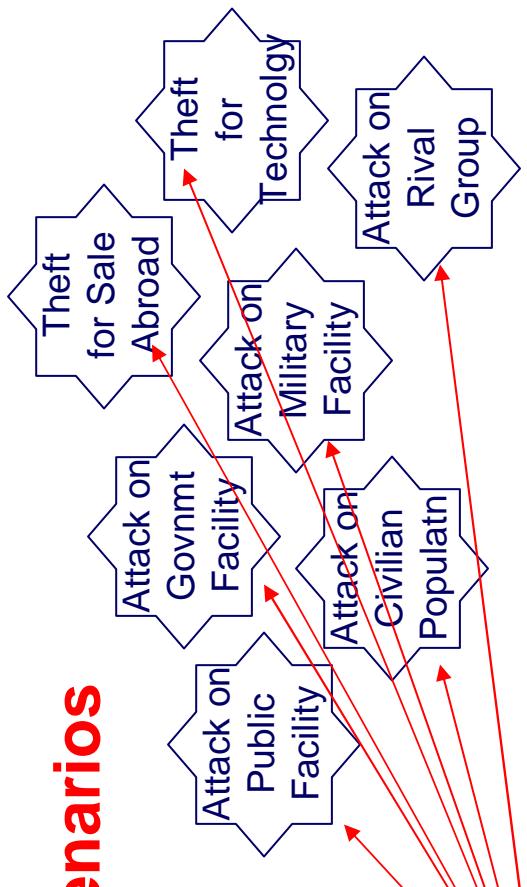
Group 2, Team 3

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Assumptions

- The Analyst will still be “in the loop”—will control the process
- The System should enable the Analyst to work more efficiently, accurately
- “QA” may come to encompass (blur with) other technology developments

On Analogy to Medical Problem Solving and Reasoning Under Uncertainty...



K Observations

1. Evidence of theft...of a number of Manpads...
2. Manpads were stolen by a member...of a militia group
3. Militia group...was God's Aryan Militia
4. God's Aryan Militia...sold some Manpads to GW
5. GW is really MJ, Saudi national
6. MJ may be member of Al-Qaeda
7. ...

Questions, Requirements

- Propositional Rep.
- “End States” Analy. (Scenarios)
- Decomp. to Questions
- Predictive Reasoning
- Forward/Backward Chaining
- Argument Validation

N Scenarios

Information Sources

Four Types of Questions

1. What does the Evidence (Observation) imply about the precursor Events?
2. What is the intent of the activity? What is the potential evidence given one of the possible hypotheses?
3. What additional information is necessary to support the conclusion / take the action?
4. What does the Analyst need to know about the actors / events to answer future questions?

Some Themes

- Structuring Tool
- Evidence Extraction
- Question Generation
- Scenario Patterns
- Methodology
 - how to apply the method to the data
- Knowledge Re-Use